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## SEQUENCE LISTING

<110> Carreno, Beatriz M.  
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<120> ANTIBODIES AGAINST CTLA4 AND USES THEREFOR

<130> GNN-009CP

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<150> 60/178,473

<151> 2000-01-27

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

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<212> DNA

<213> Homo sapiens

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 Val Phe Cys Lys Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala  
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 Ser Ser Arg Gly Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly  
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 Lys Ala Thr Glu Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln  
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 Val Thr Glu Val Cys Ala Ala Thr Tyr Met Met Gly Asn Glu Leu Thr  
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 Phe Leu Asp Asp Ser Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val  
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 Asn Leu Thr Ile Gln Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile  
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 Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly  
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 Asn Gly Ala Gln Ile Tyr Val Ile Asp Pro Glu Pro Cys Pro Asp Ser  
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 Asp Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly Leu Phe Phe  
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 Tyr Ser Phe Leu Leu Thr Ala Val Ser Leu Ser Lys Met Leu Lys Lys  
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 Arg Ser Pro Leu Thr Thr Gly Val Tyr Val Lys Met Pro Pro Thr Glu  
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 Pro Glu Cys Glu Lys Gln Phe Gln Pro Tyr Phe Ile Pro Ile Asn  
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&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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 Pro Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu  
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 Thr Ser Tyr Gly Val Tyr Trp Val Arg Gln Pro Pro Gly Lys Gly Leu  
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 Glu Trp Leu Gly Val Ile Trp Ala Gly Gly Thr Thr Asn Tyr Asn Ser  
           65                  70                  75                  80  
 Ala Leu Met Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln  
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 Val Phe Leu Lys Met Ser Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr  
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 gtcaccatga cctgcagtgc cacctcaagt ataacttaca tgtctggta ccagcagaag 180  
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Met Pro Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Thr  
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Ser Ser Ile Thr Tyr Met Ser Trp Tyr Gln Gln Lys Ser Gly Ser Ser  
 50 55 60

Pro Arg Leu Leu Ile Tyr Asp Thr Ser Asn Leu Ala Ser Gly Val Pro  
 65 70 75 80

Val Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile  
 85 90 95

Ser Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp  
 100 105 110

Ser Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
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&lt;210&gt; 7

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence:Humanized mouse

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 agcagaagcc aggaaaggct cccaagcttc tgatttatga cacatccaac ctggctctgg 240  
 ggtacctagc cgcttcagtg gcagtgggtc tgggaccgac tacacactca caatagcagc 300  
 ctgcagccag aagatdddgc cacttattac tgccagcagt ggagtagtta cccctcacgt 360  
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&lt;210&gt; 8

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence:Humanized mouse

&lt;400&gt; 8

Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser  
 1 5 10 15

- 5 -

Val Ile Leu Ser Arg Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser  
                   20                  25                  30  
 Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Thr  
                   35                  40                  45  
 Ser Ser Ile Thr Tyr Met Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala  
                   50                  55                  60  
 Pro Lys Leu Leu Ile Tyr Asp Thr Ser Asn Leu Ala Ser Gly Val Pro  
                   65                  70                  75                  80  
 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile  
                   85                  90                  95  
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp  
                   100                  105                  110  
 Ser Ser Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
                   115                  120                  125

&lt;210&gt; 9

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence:Humanized mouse

&lt;400&gt; 9

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 tgtccttgac ttgcaactgtc tctgggtttt cattaacctc atatggtgta tattgggttc 180  
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&lt;210&gt; 10

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence:Humanized mouse

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Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys  
                   20                  25                  30

- 6 -

Pro	Ser	Gln	Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu
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Glu	Trp	Leu	Gly	Val	Ile	Trp	Ala	Gly	Gly	Thr	Thr	Asn	Tyr	Asn	Ser
65					70					75					80
Ala	Leu	Met	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Lys	Asn	Gln
				85					90					95	
Val	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
			100					105					110		
Tyr	Cys	Ala	Arg	Gly	Pro	Pro	His	Ala	Met	Met	Lys	Arg	Gly	Tyr	Ala
		115					120					125			
Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
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